|   | Index of Claims   |          |          |                     |          |          |          |          |           |               |           |             |          | Application No. |                   |            |           |              |           |           |           |          |                    | Applicant(s) |                  |                        |                |            |         |          |          |                 |         |           |   |  |
|---|---|----------|----------|---------------------|----------|----------|----------|----------|-----------|---------------|-----------|-------------|----------|-----------------|-------------------|------------|-----------|--------------|-----------|-----------|-----------|----------|--------------------|--------------|------------------|------------------------|----------------|------------|---------|----------|----------|-----------------|---------|-----------|---|--|
|   | A TO CORD I MACK AGAINE BINNE AND RECORD AND CORD AND CORD AND CORD         |          |          |                     |          |          |          |          |           |               |           |             |          |                 | 4                 | 10/620,875 |           |              |           |           |           |          |                    |              |                  |                        | YAMAMOTO ET A  |            |         |          |          |                 |         |           |   |  |
|   |   |          |          |                     |          |          |          |          |           |               |           |             |          |                 | Examiner          |            |           |              |           |           |           |          |                    |              |                  | Art Unit               |                |            |         |          |          | <u></u>         | <u></u> |           |   |  |
|   |   |          |          |                     |          |          |          |          |           |               |           |             |          |                 |                   |            |           |              |           |           |           |          |                    |              |                  |                        |                |            |         |          |          |                 |         |           |   |  |
|   | 133331 USB 2000 SIRE USB (SIRE USB) SIRE USB (SIRE USB) SIRE USB (SIRE USB) |          |          |                     |          |          |          |          |           |               |           |             |          |                 | Brent A Swarthout |            |           |              |           |           |           |          |                    |              |                  | 2636                   |                |            |         |          |          |                 |         |           |   |  |
|   |   |          | _        | T                   | _        |          | _        | 1        |           | $\overline{}$ | Т         |             |          |                 |                   |            |           | $\neg$       | · 6       | _         |           |          |                    |              | _                | 1                      | $\neg$         |            | _       | _        |          | _               |         |           |   |  |
|   |   |          | 4        | R                   | eje      | cte      | ed       | l        |           | -             |           | (Τ          | hroi     | igh i           | חשר<br>יפוני      | H<br>H     | al)       |              |           | N         | Non-Elec  |          |                    | ted:         |                  |                        | A              | Appeal     |         |          |          |                 |         |           |   |  |
|   | <del> -  </del>   |          |          |                     |          |          |          |          |           | ┝             |           |             |          |                 |                   |            |           | ᅱ            |           |           |           |          |                    |              |                  |                        | 7              |            |         |          | _        | $\dashv$        |         |           |   |  |
|   |   |          | =        | . A                 | dio      | we       | bs       |          |           | +             |           |             | R        | estri           | cte               | d          |           |              |           | ١         | In        | iteri    | ere                | erence       |                  |                        | 0              | •          | Obj     | ect      | ed       | l               |         |           |   |  |
|   |   |          | <u> </u> |                     | _        |          | _        | J        |           | <u> </u>      |           |             |          |                 |                   |            |           | _ l          |           |           |           |          |                    |              |                  |                        |                |            |         |          |          |                 |         |           |   |  |
|   | CI  | aim      | ļ.,      |                     | 17.      | _        | Dat      | 9        | _         | _             | Υ         | Claim       |          |                 |                   |            | C         | ate          | _         |           |           | ٠: [     | Claim              |              |                  |                        |                |            | Date -  |          |          | _               | 7       |           |   |  |
|   | 75  | <u>8</u> | 1-804    | 50-21-5             | 30-41-11 | 1        |          |          |           |               | l.        | ļ           | <u>_</u> | Original        | L                 |            |           | ١            |           |           |           | 1        |                    | ١,           | <del>.</del>   . | Onginal                |                |            |         |          | Į        | Н               | 1       |           |   |  |
|   | Final   | Original | 6        | -21                 | 🗧        | 1        |          |          | l         | ĺ             |           |             | Final    | 뎙               |                   |            |           |              |           |           | İ         | 1        |                    | :   เ        |                  | ֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟ | 1              |            |         | Ì        |          |                 | -       | - (       |   |  |
|   | H   | 1        | 1        | 볏                   | 1        | Ļ        | ┝        | ╀        | ╀         | L             | ├-        | ∤ ;         |          | 51              | L                 | Щ          | $\dashv$  | _            | -         | 4         | 4         | -        | 4                  | <b> </b>     |                  | 01                     | 4              | 4          | +       | ╀        | ┞        | Н               | 4       | 4         |   |  |
|   | 7   | 2        | į,       | Ť                   | 2        |          |          |          |           |               | _         | <b> </b> ,: |          | 52              | $\vdash$          |            | H         |              | 7         | ᅥ         | 7         | $\dashv$ | ج. ا               | <u> </u>     | 1                | 02                     | $\forall$      | +          | 十       | +        | ┝        | ╂┼              | +       | ┨         |   |  |
|   |   | 3        | 1        | $\Box$              | $\Box$   | L        | L        | L        | F         | L             | L         | ] .         |          | 53              |                   |            |           | $\Box$       | $\Box$    | $\Box$    | $\Box$    | 1        | ₽.                 | Г            | 1                | 03                     | $\Box$         | I.         | I       | $\Box$   |          | П               | 1       |           |   |  |
|   | -   | 5        | ┝        | -                   | $\vdash$ | ┝        | ┝        | ├        | $\vdash$  | $\vdash$      | ┝         | <b>∤</b> ∙  | -        | 54<br>55        |                   | Н          | Н         | $\dashv$     | $\dashv$  | ┥         | +         | +        |                    | ⊬            |                  | 04<br>05               | +              | +          | +       | ╀        | -        | ╀               | +       | $\dashv$  | • |  |
|   |   | 6        |          |                     |          |          |          |          |           |               |           | 1           |          | 56              |                   |            |           |              |           |           |           | 士        | _: [               | E            | 1                | 06                     | 士              | 1          | t       | 士        |          |                 | _       | _         |   |  |
|   | <u> </u>  | 7 8      | ├-       | _                   | l-       | <u> </u> | ┝        | ┞        | ┞         | L             | ⊢         |             | <u> </u> | 57<br>58        | H                 | Н          | _         | 4            | 4         | 4         | 4         | +        | $\mathbb{I}_{Z_2}$ | F            |                  | 07<br>08               | $\dashv$       | $\perp$    | $\perp$ |          | L        | П               | 4       |           |   |  |
|   |   | 9        |          |                     |          |          |          | $\vdash$ |           |               | ┢         | ļ.          | -        | 59              |                   | Н          |           | +            | ┪         | +         | $\dashv$  | +        | ┨.                 | -            |                  | 09                     | 十              | +          | +       | ╁        | ⊢        | H               | +       | ┥         |   |  |
|   |   | 10       |          |                     |          |          |          | L        |           | L             | L         | ļ.,         |          | 60              |                   |            | $\Box$    | $\Box$       | $\exists$ | $\dashv$  | $\Box$    | 1        | ].                 | E            | 1                | 10                     | $\Box$         | T          | I       | L        |          | П               | 1       |           |   |  |
|   | $\vdash$  | 11<br>12 | H        | Н                   | Н        | H        | ┢        | ┢        | $\vdash$  | ┝             | -         |             | ┝        | 61<br>62        | H                 | -          | -         | ┥            | +         | $\dashv$  | 4         |          | 1:                 | ╬            |                  | 11<br>12               | +              | ╬          | ╀       | ╀        | ⊢        | ┦               | +       | 4         |   |  |
|   |   | 13       |          |                     |          |          |          |          |           |               |           |             |          | 63              |                   |            |           | 士            | 士         | 士         | $\exists$ | 土        | 1                  |              |                  | 13                     | 1              | İ          | İ       |          |          |                 | $\pm$   | 7         |   |  |
| • |   | 14       | Н        | Ц                   |          | Н        | H        | H        | -         | -             | L         | ŀ           | _        | 64<br>65        | Н                 | 4          | 4         | 4            | 4         | 4         | 4         | 4        | ]                  | _            |                  | 14                     | 4              | 1          | Ļ       | L        |          | $\Box$          | 7       | $\Box$    |   |  |
|   |   | 16       |          |                     |          |          | $\vdash$ |          |           |               |           |             |          | 66              | Н                 | ┨          | $\dashv$  | +            | +         | +         | $\dashv$  | ╅        | `. ا               | $\vdash$     |                  | 15<br>16               | +              | +          | ╁       | H        | ┝        | $\vdash$        | +       | $\dashv$  |   |  |
|   |   | 17       |          |                     |          |          |          |          |           | П             |           |             |          | 67              |                   | $\Box$     |           | 4            | $\Box$    | $\Box$    | $\dashv$  | 1        | ]`.                |              | 1                | 17                     | 1              | 1          | Ţ       |          |          |                 |         | ゴ         |   |  |
|   | $\vdash$  | 18<br>19 | Н        | $\dashv$            |          | Н        | Н        | Н        |           | Н             | -         |             | -        | 68<br>69        | Н                 | -          | ┥         | +            | +         | +         | +         | +        | 1.6                | ┝            |                  | 18<br>19               | +              | +          | +       | ╀        | ⊢        | $\vdash \vdash$ | 4       | 4         |   |  |
|   |   | 20       |          | $\Box$              |          |          |          |          |           |               |           | ş           |          | 70              |                   |            | コ         |              |           | 士         |           |          | ]·=                |              | 1:               | 20                     | $\pm$          | $\pm$      |         |          |          |                 | I       | 1         |   |  |
|   | $\vdash$  | 21<br>22 |          | $\dashv$            | $\dashv$ | -        | Н        | H        | Н         | Н             | _         |             |          | 71<br>72        | Н                 | -          | 4         | -            | 4         | 4         | 4         | $\perp$  | -                  | L            |                  | 21                     | $\bot$         | $\bot$     | F       |          |          |                 | 4       | 4         |   |  |
|   | $\overline{}$   | 23       |          | $\exists$           |          |          |          |          |           |               | _         |             |          | 73              | Н                 | 7          | ┪         | 7            | +         | +         | $\dashv$  | +        | ┨                  | ┢            |                  | 23                     | ┿              | +          | ╁       | $\vdash$ | Н        | ╟┼              | +       | ┥         |   |  |
|   |   | 24<br>25 | $\dashv$ | 4                   | $\dashv$ |          |          |          | П         |               |           | ľ           |          | 74              |                   | $\Box$     | $\exists$ | $\downarrow$ | $\dashv$  | $\exists$ | 4         | 1        | ، [                |              | 12               | 24                     | 1              | I          | I       |          |          | $\Box$          | I       |           |   |  |
|   |   | 26       | Н        | $\dashv$            | $\dashv$ |          | -        | _        | Н         | Н             | -         |             |          | 75<br>76        | Н                 | ᅱ          | +         | +            | ╅         | +         | ┽         | ┿        | <b>∤</b> ∵         | ⊩            |                  | 25<br>26               | +              | +          | ╀       | -        | Н        | Н               | +       | $\dashv$  |   |  |
|   |   | 27       |          | $\Box$              |          |          |          |          |           |               |           | ; .         |          | 77              |                   |            |           |              |           |           | 1         | 土        | <u> </u>           |              | 1:               | 27                     | $\perp$        | T          | t       | $\vdash$ |          | Ħ               | 士       | 1         |   |  |
|   | -   | 28<br>29 | Н        | -1                  | $\dashv$ | $\dashv$ | Н        | Н        | Н         | Н             |           |             |          | 78<br>79        | Н                 | 4          | 4         | 4            | +         | +         | +         | - -      | ᅪ                  | L            | 12               | 28<br>29               | 4              | +          | $\perp$ |          | П        | $\Box$          | 4       | 7         |   |  |
|   |   | 30       |          |                     |          |          |          |          | $\Box$    |               |           |             |          | 80              | H                 |            | $\exists$ | ┪            | 1         | +         | +         | ╁        | ╅                  | $\vdash$     |                  | 10                     | +              | +          | ╁       | ╁        | Н        | $\vdash \vdash$ | +       | ┥         |   |  |
|   |   | 31<br>32 | Н        | -                   | $\dashv$ |          | Н        | Н        | Н         | Ш             | _         |             |          | 81<br>82        | П                 | 4          | 7         | 4            | 4         | 4         | $\dashv$  | T        | ]                  | 匚            |                  | 11                     | $\blacksquare$ | T          | Γ       |          |          |                 | 1       | 7         |   |  |
|   |   | 33       |          | $\exists$           |          |          |          | Н        |           |               |           |             |          | 83              | H                 | $\dashv$   | ┪         | ┪            | +         | ╅         | +         | +        | ┨                  | ┝            |                  | 12                     | +              | ╁          | ╁       | ┝        | Н        | $\vdash$        | +       | ┨         |   |  |
|   |   | 34       |          | $\rightrightarrows$ | $\Box$   |          |          |          |           |               |           | ١           |          | 84              |                   | $\Box$     |           | 1            | $\Box$    | $\exists$ | $\exists$ | 工        | <u> </u>           |              | 1:               | 14                     | 土              | İ          | İ       |          |          | Ħ               | I       | 1         |   |  |
|   |   | 35<br>36 | $\dashv$ | $\dashv$            | ᅱ        | $\dashv$ | Н        | Н        | Н         | -             | _         |             |          | 85<br>86        | Н                 | +          | 4         | +            | +         | 4         | +         | +        | ┦.                 | ┡            |                  | 15                     | 4              | +          | 1       | $\vdash$ | $\perp$  | $\vdash$        | Ŧ       | 7         |   |  |
|   |   | 37       |          | コ                   | コ        | $\Box$   |          |          |           |               |           | H           |          | 87              |                   |            |           | 士            | 士         | 士         | $\pm$     | 士        | 1                  |              |                  | 7                      | $\dagger$      | +          | †       | Н        | Н        | H               | +       | ┥         |   |  |
|   |   | 38<br>39 | $\dashv$ | $\dashv$            | $\dashv$ | $\dashv$ | $\dashv$ | Н        | Н         | $\dashv$      | _         |             |          | 88<br>89        | Ц                 | 4          | 4         | 1            | 4         | 4         | $\dashv$  | $\perp$  | 7                  | 匚            |                  | 8                      | 7              | Ţ          | Г       |          | $\Gamma$ | $\Box$          | 1       | 7         |   |  |
|   |   | 40       |          | 1                   |          |          |          |          |           |               |           |             |          | 90              |                   | 1          | 1         | $\pm$        | +         | $\dashv$  | +         | +        | ┨.                 | -            |                  | 9                      | +              | ╁          | ╁       | Н        | Н        | $\dashv$        | +       | $\dashv$  |   |  |
|   | _   | 41       | -        | 4                   | 4        | 4        |          |          |           |               |           |             |          | 91              |                   | $\exists$  | $\dashv$  | ightarrow    | 7         | Ţ         | 1         | 1        | ]                  |              |                  | ı                      | 1              | T          | Ι       |          |          |                 | 工       |           |   |  |
|   |   | 43       | _        | _                   |          | _+       | $\dashv$ | $\dashv$ | $\vdash$  | -             | ᅱ         |             |          | 92<br>93        | $\vdash$          | $\dashv$   | +         | +            | +         | +         | +         | +        | ┨                  | $\vdash$     | 14               | 3                      | +              | +          | ╀       | Н        | Н        | $\dashv$        | +       | $\dashv$  |   |  |
|   |   | 44       | $\Box$   | コ                   | コ        | $\Box$   | コ        |          | $\square$ | $\Box$        |           | •           |          | 94              |                   | ゴ          | $\Box$    | ユ            | 士         | 士         | #         | 土        | 1                  | 匚            | 14               | 4                      | 士              | $_{\perp}$ |         | Ħ        |          |                 | 士       | $\exists$ |   |  |
|   | $\dashv$  | 45<br>46 | $\dashv$ | +                   | 4        | $\dashv$ | ┩        | $\dashv$ | $\dashv$  | -             | -         |             |          | 95<br>98        |                   | +          | +         | +            | 4         | 4         | -         | +        |                    | L            | 14               |                        | $\bot$         | £          | F       | П        |          | $\perp$         | Ţ       | 7         |   |  |
|   |   | 47       | ゴ        | ユ                   |          | コ        |          |          |           | ╛             |           |             | _        | 97              |                   | _          | $\pm$     | $\pm$        | $\pm$     | $\pm$     | $\pm$     | +        | <b> </b>           | _            | 14               |                        | +              | +          | H       | Н        | Н        | +               | ╁       | $\dashv$  |   |  |
|   |   | 48       | 4        | +                   | 4        | -        | $\dashv$ | 4        | $\dashv$  | _[            | 4         |             |          | 98<br>99        | 4                 | 7          | Ţ         | Ţ            | Ţ         | Ţ         | 1         | Ŧ        | ]:                 |              | 14               | 8                      | 1              | I          |         |          |          | $\Box$          | 1       | ]         |   |  |
|   |   | 50       | _        | 1                   | _        | _        | 1        | Ⅎ        | 1         | 1             | $\exists$ | 1           |          | 100             | +                 | 十          | +         | +            | +         | +         | +         | ╁        | 1                  | ┝            | 15               |                        | +              | ╀          | ╁       | Н        | $\dashv$ | $\dashv$        | +       | 4         |   |  |
|   |   |          |          |                     |          |          |          |          |           | _             |           | •           |          |                 | _                 | _          |           | _            | _         |           |           |          |                    | _            |                  |                        | _ـــ           | _          |         | لب       |          |                 |         |           |   |  |